

32-13275: JMJD6 Human

Alternative Name :

Jumonji Domain Containing 6, Phosphatidylserine Receptor, Jumonji Domain-Containing Protein 6, Histone Arginine Demethylase JMJD6, Peptide-Lysine 5-Dioxygenase JMJD6, JmjC Domain-Containing Protein 6, Lysyl-Hydroxylase JMJD6, PTDSR, PSR, Bifunctional Arginine Demethylase And Lysyl-Hydroxylase JMJD6, Protein PTDSR, EC 1.14.11.-, EC 1.14.11, KIAA0585, PTDSR1, Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6 (EC:1.14.11.-).

Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

Jumonji Domain Containing 6, also known as JMJD6 performs as a lysyl-hydroxylase which catalyzes 5-hydroxylation on specific lysine residues of target proteins for instance U2AF2/U2AF65 and LUC7L2, as a regulator of RNA splicing by mediating 5-hydroxylation of U2AF2/U2AF65, affecting the pre-mRNA splicing activity of U2AF2/U2AF65. Additionally to peptidyl-lysine 5-dioxygenase activity, JMJD6 performs as an RNA hydroxylase, as proposed by its ability to bind single strand RNA. Furthermore, it acts as an arginine demethylase which demethylates histone H3 at 'Arg-2' (H3R2me) as well as histone H4 at 'Arg-3' (H4R3me), thus taking a part in histone code.

JMJD6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 437 amino acids (1-414 a.a) and having a molecular mass of 50.0kDa.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 90% as determined by SDS-PAGE.

Content : JMJD6 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 30% glycerol and 1mM DTT.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMNHKSKK RIREAKRSAR PELKDSLDTW RHNYYESFSL
SPAADVADNVE RADALQLSVE EFVERYERPY KPVVLLNAQE GWSAQEKWTL ERLKRKYRNQ
KFKCGEDNDG YSVKMKMKYY IEYMESTRDD SPLYIFDSSY GEHPKRRKLL EDYKVPKFFT DDLFQYAGEK
RRPPYRWFVM GPPRSGTGIH IDPLGTSAWN ALVQGHKRWLC LFPTSTPREL IKVTRDEGGN QQDEAITWFN
VIYPRTQLPT WPPEFKPLEI LQKPGETVFV PGGWWHVVLN LDTTIAITQN FASSTNFPVV WHKTVRGRPK
LSRKWYRILK QHPELAVLA DSVDLQUESTG IASDSSSDSS SSSSSSSSDS DSECEGSEG DGTVHRRKKR
RTCSMVGNGD TTSQDDCVSK ERSSSRIRDT CGGRAHP.